



CarCycle

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SUMMARY

CarCYcle is a means of transportation that resembles a common vehicle but is operated by a bicycle. CarCYcle has functioning electrical work that is controlled by the rider. With this manual, you will be able to create and be the proud owner of your very own version of CarCYcle.

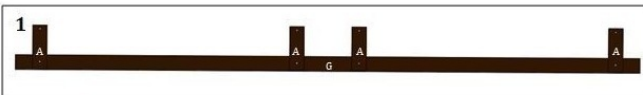
Step 1 — CarCycle

Part	Quantity	Approximate Cost (\$)
Bicycle w/ Dimension 2'x 4'x5'	1	99.99
AAA Batteries	4	5.99
4 Cell Battery Pack	1	1.50
Chicken Wire [12"x50"]	1	8.97
Door Hinge	4	3.92
Dynamo Generator	1	20.00
Electrical Switch	1	5.19
Electrical Wiring	20 [ft]	2.33
Flour [1 lb bag]	1	3.00
Latches	1	2.66
L.E.D. Lights (Red and White)	6 [each]	7.14
Premium Furring Strips (Lumber)	85 [ft]	9.48
Newspaper or Magazines	20 [issues]	19.80
Spray Paint	2 [bottles]	1.98
Total Cost		191.95

Part #	Description of Cut	Quantity
A	6 inch straight cut	8
B	18 inch straight cut	4
C	24.5 inch straight cut	6
D	32 inch straight cut	6
E	34 inch straight cut	6
F	48 inch straight cut	1
G	85 inch straight cut	1
H	37 inch 30° angle cut	6

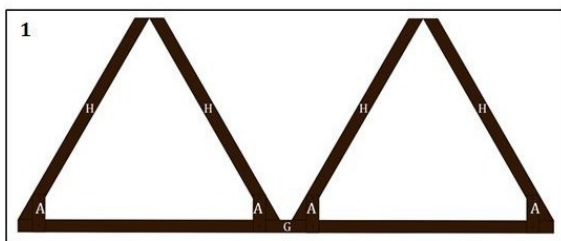
- Table 1 is a recommended list of materials that will be used when creating CarCYcle. The is only a recommended list because every version of CarCYcle depends on bicycle size and which type of vehicle the rider prefers. Along with the list of parts, a saw, drill, screwdriver, and tape measure will be used throughout the process.
- Table 2 is a cut list of the wood needed for CarCYcle. Make sure to measure all of the cuts before cutting to ensure that there will be enough lumber.

Step 2



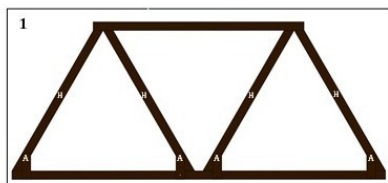
- Attach Part A to Part D by screwing the two parts together as shown in picture. When lining up the holes for Part A, remember to screw through the hole that is 1 inch from the edge, not the one that is ½ inch from the edge.

Step 3



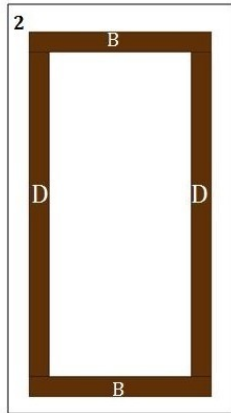
- Place Part F flush with Part D and underneath Part A as shown in picture. Using the holes in Part A as a guide, drill through Part F. Once the hole is drilled in Part F, connect Part A to Part F with a screw to form the configuration in Figure 3.

Step 4



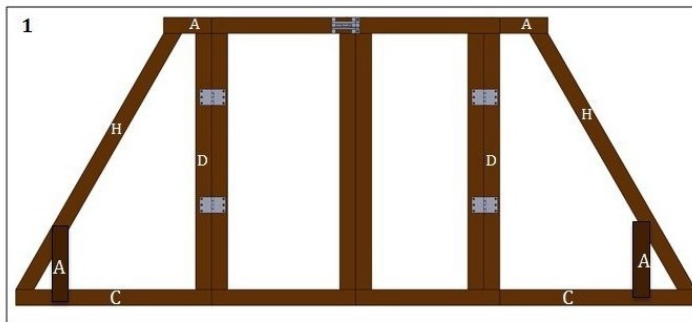
- Align Part D above Part F as shown in the picture. Slanted holes must be drilled through Part D into Part F. Once these holes are made, screws can be put into place.

Step 5



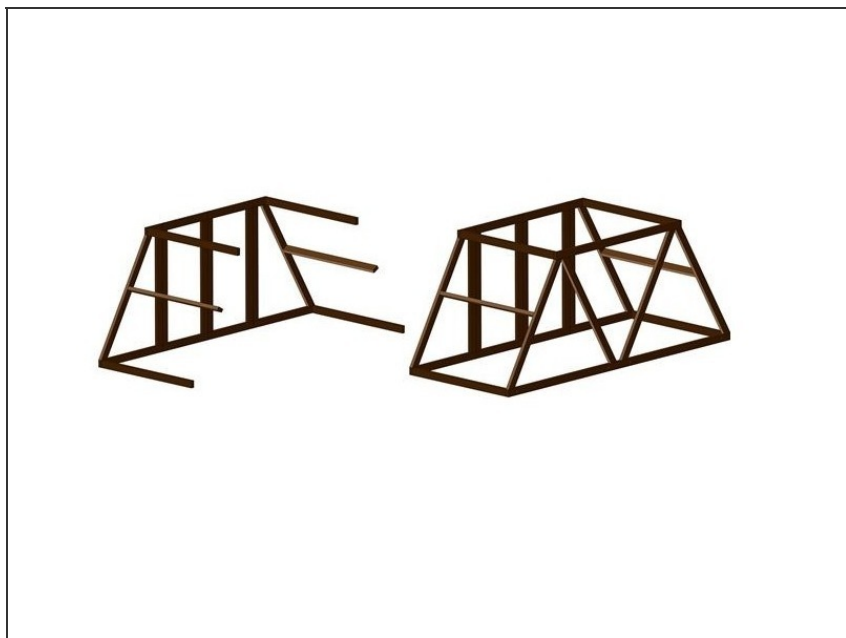
- Use the holes in Part B as a guide and drill into Part B. Fasten Part B and Part D.

Step 6



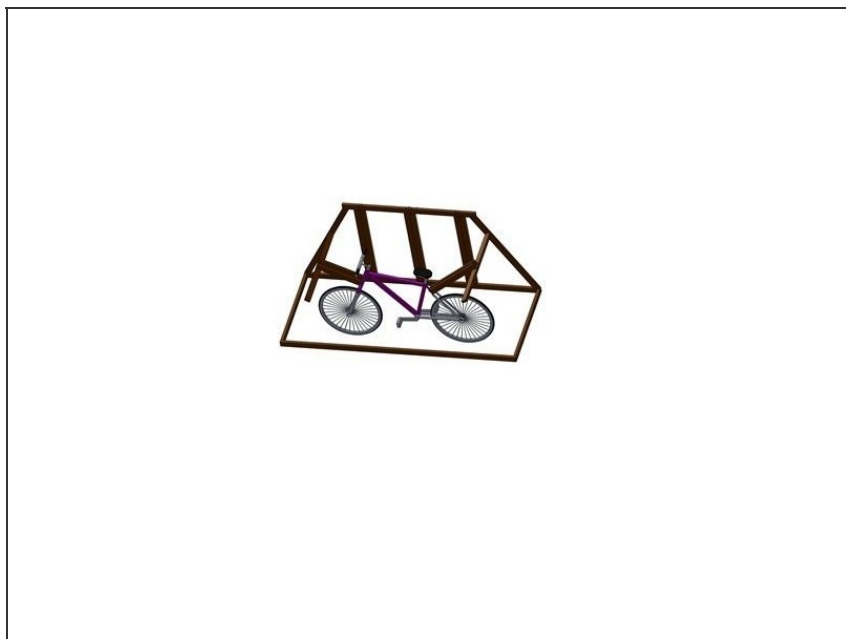
- To create the left side of the frame, assemble the two configurations of Parts A (2), C, D, and H. Then, with the use of hinges (4), attach the configurations to the doors. The last part is to attach the latch as shown in the picture.

Step 7



- The picture shows Part E attaching Sub-Assembly A to Sub-Assembly B.

Step 8



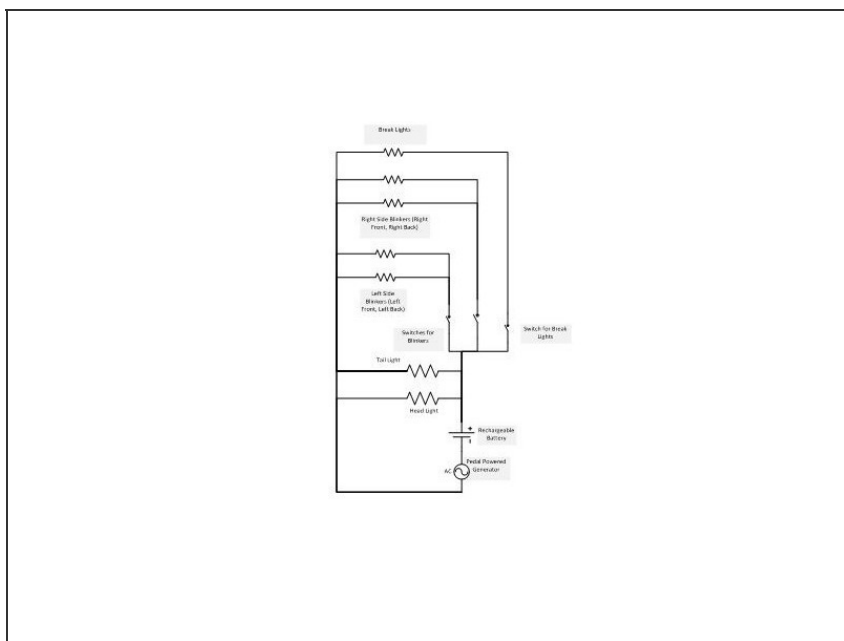
- The picture shows a cutaway of the frame mounted to the bike. An easy way to ensure that the middle Part B is in the right location is to first mount the U bracket with Part C. Once this is accomplished, mark on the sides of Sub-Assembly A and Sub-Assembly B. This will be where the middle Part E is located.

Step 9



- The first step in completing the body of CarCYcle is to mold the chicken wire around the frame. The easiest way to do this is to use twist ties. The picture shown is a CAD drawing of the wiring attached to the frame (shown on the left) and the papier-mâché.

Step 10



- Shown here is the electrical diagram for CarCYcle.

Step 11



- Shown here is CarCYcle with all of the electrical work installed. At this point, CarCYcle should be fully operational!

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